15 September 1970

To:

Contracting Officer, Contract LK-3626 ✓

Subject:

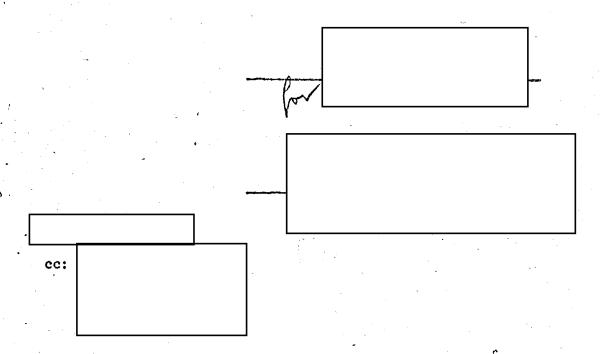
SUBMITTAL OF ECP U-2R-61

Transmitted herewith for your consideration and approval are four (4) copies of ECP U-2R-61, entitled, "Personnel Parachute - Control Of".

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Your earliest response and approval will be appreciated.



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Approved For Release 2002/08/01: CIA-RDP75B00285R000100080002-1

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Approved For Release		A-RDP75B00285	18000	100080002-1				
LOCKHEED-CALIFORNIA COMPANY		CHANGE PROPOSAL X		1 A C U-2R-61				
DATE 15 September 1970	AFFECTS:	WSPO	X	PRO	DIECT X	]		
NAME OF MAJOR COMPONENT P Parachute	ART OR LOWEST	SUBASSEMBLY		PART NO. 8	<b>MODEL C</b> RQ225-3	OR TYPE		
TITLE OF PROPOSAL: PERSONNEL PARACHUTE - CONTROL OF								
NATURE OF PROPOSAL:								
1. To add six (6) line release to provide sufficient descent control.								
2. Similar ECP for SR-71	has been subm	itted.						
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DEACON, FOR PROPERTY	en des en de la companya de la comp	Miteriagus que de la Melle de Mitago alla che de che e e e e e de conserve de como e e e e e e e e e e e e e e E			Designation of the Section of the Se	<del>andress and a</del>		
REASON FOR PROPOSAL:								
This ECP covers the design, testing and qualification of subject improvement of six (6) line cut on chute.								
					•			
			:	4,70	••			
		•						
ESTIMATED COST AND TIME IN	IVOLVED :				·	<del>endelgaat befreit gegent die e</del> n de <del>19</del> fe		
ES ADDITIONAL FUNDING REQUIRE	ED:			Mine droughtend for administration in the				
CP ESTIMATED COST FOR KITS OR PARTS: See Page 3								
ADDITIONAL FUNDING REQUIRED: See Page 3								
ITEMS AFFECTED BY PROPOSAL:								
SAFETY MISSION PERFORM OPERATING FFECTOR ANCE PROCEDUR	E CHANGE WER	OHT OR TOOLS & SUPPORT ANCE EQUIPMENT	MAINTE NAMCE PROCEDU	Life	FLIGHT MANUAL	MAINTE- NANCE MANUAL		
EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD								
SOURCE OF PARTS FOR KIT AVAILABILITY XXX WEEKS AFTER APPROVAL					VAL			
LAC, GFE and Purchased See Page 2								
DISPOSITION OF SPARES AFFECTED								
N/A					ang di dinang mga panggan ang di			
APPROVED: WSPO   APP								

PAGE 1 OF 3

### ECP U-2R-61

### ECP CHECKLIST

## 1. Applicability

This change affects the personnel parachute.

## 2. Tests Required

### A. Static Tests (ADP)

This will be a series of static pull tests on the suspension line to riser line connection where the line release is located. Object of the tests is to determine the amount of static strength degradation resulting from the line release incorporation.

A minimum of twelve (12) tests are required.

Test Equipment Required:

Six (6) test samples - standard (purchased) Six (6) test samples - modified (purchased)

# B. Whirl Tower Tests (El Centro Facility)

This will be a series of six (6) tests at medium and high speed (175) kt. and 250 kt.) to insure that the modification has not adversely affected the functional and structural integrity of the system.

Test Equipment Required:

Three parachutes rigged for whirl tower usage (see 2D) Modified parachutes used for other tests, jumps, etc.

# C. Airplane Drop Tests (El Centro Facility)

This will be a series of torso dummy (GFAE) drop tests out of a C-130 aircraft at the USAF El Centro Parachute Test Facility. The object of these tests is to determine the margin of safety of a six line release on this parachute.

To determine this, we will cut suspension lines progressively until we attain canopy collapse. A minimum of six (6) line drops are required.

Test Equipment Required:

Reefing line cutters (purchased equipment)
Three (3) test parachutes (see 2D)
Dummy recovery chute packs (El Centro furnished)
Test aircraft, camera, and range facilities (El Centro furnished)

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## ECP U-2R-61

### ECP CHECKLIST

### D. Live Jump Tests (El Centro Facility)

This will be a series of eighteen (18) live jump tests. The purpose of these tests is to determine the degree of descent control afforded by the modification, and also the ability of personnel to actuate the line release and then steer the parachute for a specific ground target area. On most of these jump tests, the jumpers will be wearing the flight equipment of pressure suit and survival kit (GFAE).

The jumpers will be required to utilize the URT/33 (GFAE) Locator Beacon to test the pull of arming plug.

Test Equipment Required:

Three (3) test parachutes (EAFB furnished)

Three (3) jumpers, suited up in the pressure suit and survival kit Modification and equipment for use of the jumpers standard emergency parachute - (El Centro and EAFB furnished)

### 3. Test Coordination

ADP personnel will coordinate the test requirements and work out details with El Centro personnel.

At the conclusion of the test program, ADP will compile a test report including all test efforts and results.

# 4. Kit

This is a development - test, and qualification program only. Subsequent to successful completion of the test and qualification program, a production retrofit program will be scheduled through the submittal of another ECP.

#### 5. Contract LK-3626, Customer Common

Estimated cost of design, testing and qualification

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- Note: 1. Personnel equipment including pyrotechnics and the use of test facilities at El Centro have been assumed GFE for pricing purposes.
  - 2. Approval of a similar ECP for the SR-71 project would result in a reduced cost to the U-2 Program, since the costs would be shared with the SR-71 project.

## 6. Schedule

Testing and qualification program to be complete approximately three (3) months after approval.

# 7. Additional Funding Required

Funding requirements dependent upon negotiated levels for FY-71 Support Contra Abouto 250 For Release 2002/08/01: CIA-RDP75B00285R000100080002-1

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